

Transportation Systems of Automated Machining Lines

S/118/60/000/010/002/008
A161/A026

automatic resettable lines for workpieces that easily move in trays by gravity. The system of the author's design (Bobrov) (Fig. 9) has distributing conveyers with return motion of workpieces. Every machine group has a distributing conveyer. The lift of this system (1) is a vertical chain conveyer with receiving (4) and handing out (5) tray. The distributing conveyer is horizontal and has a receiving tray for taking blanks from the lift, and feed trays (7) at every machine. The removing conveyer (3) has plates that are attached to the drive chain links, several receiving trays (8) and one removing (9). Blanks (6) come into lift (1) and fill all free cells in the distributing conveyer (2) in which they move permanently along the entire machine group and come into one or the other machine by a tray (7). Shutters in trays open the way to a machine only when a finished workpiece comes out. Emptied cells fill with blanks again. This system ensures feed of blanks to separate machines in any combination and makes machines independent from each other. It is stressed that all transfer systems discussed have overhead distributing conveyers for the reason of floor space economy, but abroad, for instance at the Ford Company works, the distributing conveyer is placed on the floor. There are 10 figures.

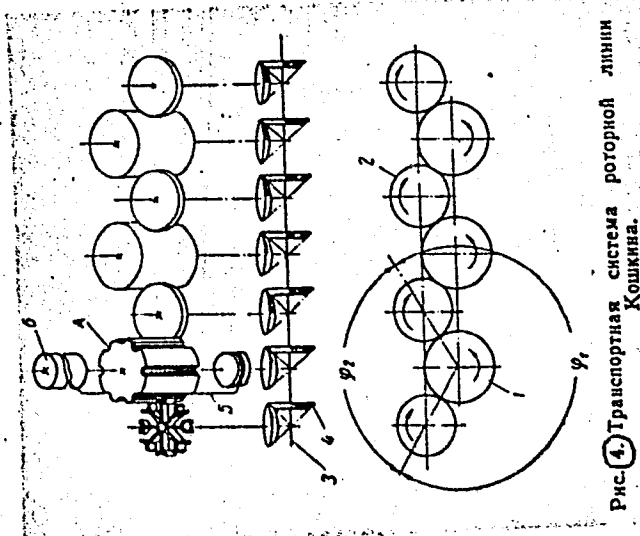
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Figure 4:

"Rotor line", Koshkin design.



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Figure 6:

Transportation system for group line,
Morozov system.

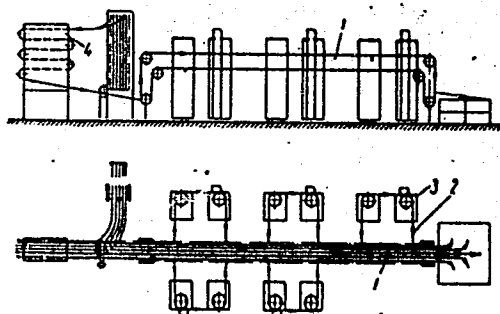


Рис. 6. Схема транспортной системы групповой линии конструкции Морозова.

Figure 7:

Knyaz'kov system.

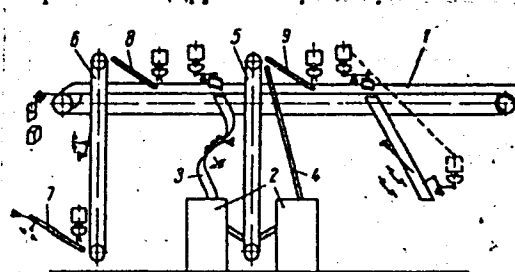


Рис. 7. Транспортная система конструкции Князькова.

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Figure 8:

Sigodzinskiy system

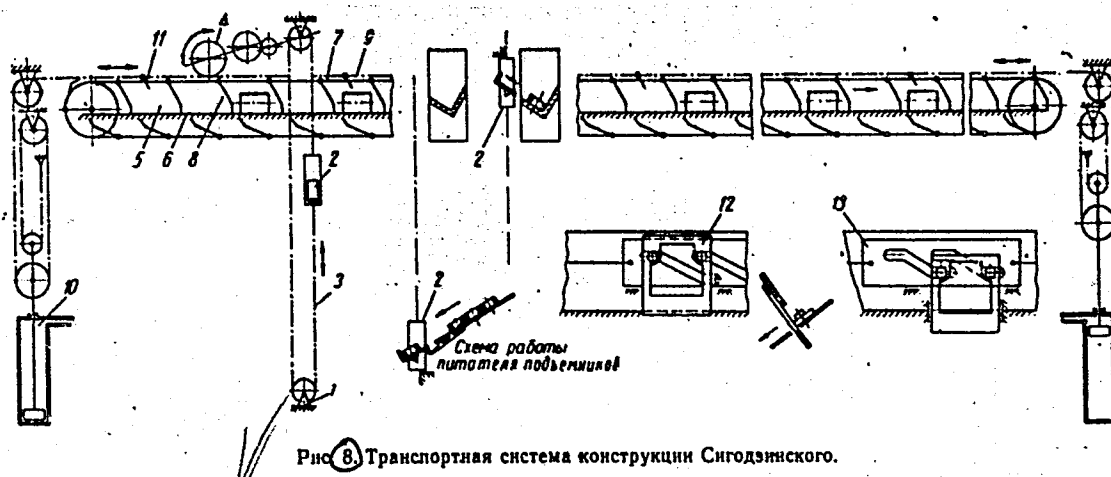


Рис. 8. Транспортная система конструкции Сигодзинского.

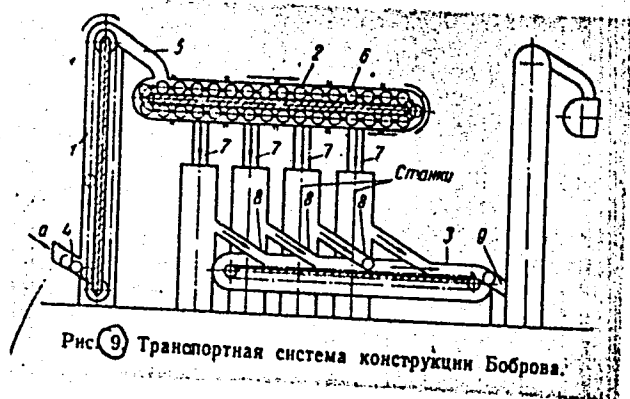
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Figure 9:

Bobrov system



Card 8/8

BOBROV, V.P., kand.tekhn.nauk

Feeding and conveying devices partly using gravity flow. Mekh.
i avtom.proizv. 16 no.1:45-48 Ja '62. (MIRA 15:1)
(Conveying machinery)

BOBROV, V.P., kand.tekhn.nauk

Determining roll diameters of a semiautomatic conveyor for cone
rollers. Mekh.i avtom.proizv. 16 no.7:44-46 JI '62.

(MIRA 15:8)

(Conveying machinery)

BOBROV, V.P., kand. tekhn. nauk

Reliability of automatic loading and conveying devices. Mekh.
i avtom. proizvod. 17 no.12:44-49 D'63. (MIRA 17:2)

BOBROV, V.P., kand. tekhn. nauk; KOZ'MINYKH, Yu.K., inzh.,
retsenzent; MALOV, A.N., prof., red.

[Design of feeding and conveying devices for machine
tools and automatic lines] Proektirovanie zagruzochno-
transportnykh ustroystv k stankam i avtomaticheskim
liniam. Moskva, Mashinostroenie, 1964. 289 p.
(MIRA 18:1)

BOBROV, V.P., kand. tekhn. nauk

Program controlled feed mechanisms. Mekh. i avtom. proizv. 18
no.6:53-56 Je '64. (MIRA 17:9)

BOBROV, V.P.

Designs of automatic feed mechanisms in Czechoslovakia Biul.tekh.-
ekon.inform.Gos.nauch.-issl.inst.nauch.i tekhn.inform. 17 no.7:93-96
J1 '64. (MIRA 17:10)

BOBROV, V.P., tekhnik

Replacement of the keyer of the "Mars" radio transmitter with
a pedal. Avtom., telem. i svyaz. 9 no.1:26 Ja '65. (MIRA 18:2)

1. Laboratoriya signalizatsii i svyazi Yuzhnoy dorogi.

ZENZIN, Yu.A.; BOBROV, V.P.; GAVRILOV, A.K.; CHIRIK, P.I.; KATOL'NIK, V.M.

Stand for controlling the aerodynamic resistance of cylinders
and heads of air-cooled engines. Trakt. i sel'khoz mash. no.8:
14-15 Ag. '65. (MIRA 18:10)

1. Sibirskiy avtomobil'no-dorozhnyy institut im. V.V. Kuybysheva
i Vladimirskiy traktorny zavod im. A.A. Zhdanova.

BOBROVA, I.F.; KOSTYLEVA, Ye.I.

Conference dedicated to the studies on embryological chemistry
and embryological physiology conducted on sea urchins. TSito-
logia 7 no.3:437-440 My-Je '65. (MIRA 18:10)

KORENEVSKIY, S.M.; BOBROV, V.P.; GALITSKIY, I.V.; KHRUSHCHOV, D.P.

Postassium potential of the halogen sediments in the Dnieper-Donets
Lowland and Donets Basin. Lit. i pol. iskop. no. 3-20-42 My-Je '64.
(MIRA 17:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologicheskii institut,
Leningrad, tresty Glavnogo upravleniya geologii i okhrany neдр pri
Sovete Ministrov UkrSSR i Institut geologicheskikh nauk UkrSSR.

KARASIK, M.A.; BOBROV, V.P.; GONCHAROV, Yu.I.; VANINA, M.V.

Geochemistry of boron in halogen formations. Lit. i pol. iskop.
no.6:43-56 N-D '64. (MIRA 18:3)

1. Institut mineral'nykh resursov Gosudarstvennogo geologicheskogo
komiteta SSSR, Simferopol'.

BOEROV, V.P.; BRAGIN, Yu.N. [Brahin, IU.N.]; BUTSYK, Yu.V.; LEVENSHTYEN, M.L.;
SOKOLOV, V.A.; YUDEL'SON, A.A. .

Find of potassium salt in the Donets Basin. Geol. zhur. 24
no.4:107-108 '64. (MIRA 18:2)

1. Trest "Artemgeologiya".

KORENEVSKIY, S.M.; GALITSKIY, I.V.; BOBROV, V.P.; KHRUSHCHOV, D.P.

Recent data on the potassium potential of the halogen sediments
of the Dnieper-Donets Lowland and the Donets Basin. Razved. i
okh. nedr. 30 no.5:5-11 My '64. (MIRA 17:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologicheskii institut
(for Korenevskiy). 2. Trest "Poltavaneftgazrazvedka" (for
Galitskiy). 3. Trest "Artemgeologiya" (for Bobrov). 4. Institut
geologii AN UkrSSR (for Khrushchev).

BOBROV, V.P.; KORENEVSKIY, S.M.

Stratigraphy of the salt-bearing sediments of the new Kramatorsk series of the Donets Permian. Dokl. AN SSSR 159 no.2:323-326
N '64. (MIRA 17:12)

1. Trest "Artemgeologiya" i Vsesoyuznyy nauchno-issledovatel'skiy geologicheskii institut. Predstavleno akademikom N.M. Strakhovym.

SOBROV, V.P.; KORENEVSKIY, S.M.

Lithology, rhythmicity, and geochemistry of Lower Permian halogen
sediments in the northwestern part of the Donets Basin. Sov.geol.
8 no.10:110-126 0 '65.
(MIRA 18:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologicheskii institut.

BOBROV, V.P.; GONCHAROV, Yu.I.

Characteristics of boron and strontium determination in sulfate
and carbonate rocks and conditions governing superficial leaching.
Geokhimiia no.11:1367-1370 N '65. (MIRA 19:1)

1. Institut mineral'nykh resursov, Simferopol'. Submitted February
24, 1964.

I. 07863-67 EWT(d)/EWT(1)/EWP(M)/EWT(M)/EWT(1)/EWT(1)/EWT(1)/EWT(1)/EWT(1)/EWT(1)
ACC NR: AP6011246 FDN SOURCE CODE: UR/0413/66/000/006/0090/0090

AUTHORS: Zensin, Yu. A.; Bobrov, V. P.; Gavrilov, A. K.; Chirik, P. I.; Katol'nik
V. M.

ORG: none

TITLE: An aerodynamic chamber for ¹⁴inspecting the cylinders and heads of internal combustion engines by their aerodynamic resistance. Class 42, No. 179965

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 6, 1966, 90

TOPIC TAGS: aerodynamic test, aerodynamics, internal combustion engine, high pressure chamber

ABSTRACT: This Author Certificate presents an aerodynamic chamber for inspecting the cylinders and heads of internal combustion engines by their aerodynamic resistance. The chamber is connected to a measuring pipe which contains a throttle provided with a device for holding the inspected object and with a U-shaped liquid manometer. The latter records the pressure at the entrance to the measuring pipe, this pressure being indicative of the aerodynamic resistance offered by the inspected object. To provide a means for marking the object being inspected, the device contains a marking equipment with several scribes capable of producing a symbol corresponding to a given aerodynamic resistance. The liquid manometer of the pipe is provided along its

Cord 1/2

UDC: 620.533.607

L 07863-67

ACC NR: AP6011246

height with photoresistors responding to the movement of the liquid level. The number of these photoresistors is equal to the number of scribes, and each resistor is electrically connected with one of the markers. To check the pressure in the chamber, a single photoresistor may be placed on the liquid manometer of the chamber and may be electrically connected to the marking device.

SUB CODE: 2013/

SUBM DATE: 01 May 64

Card 2/2 bo

S/054/63/004/001/015/022
B101/B215

AUTHORS: Shul'ts, M. M., Bobrov, V. S., Bukhareva, I. S.

TITLE: Electrode properties of glasses containing titanium oxide

PERIODICAL: Leningrad. Universitet. Vestnik, Seriya fiziki i khimii, no. 1, 1963, 134-142

TEXT: Glasses of the composition $M_2O - TiO_2 - SiO_2$, where $M = Na$ or Li , were studied. The curve E versus pH was plotted at $18^\circ C$ or $95^\circ C$ in a buffer solution containing $3 N [Li^+]$ or $[Na^+]$. The system $Li_2O - TiO_2 - SiO_2$ yielded glasses with a maximum content of TiO_2 not exceeding 6 mole%. A higher TiO_2 content caused devitrification. TiO_2 reduced the upper limit of the H^+ function, yielding a second linear section on the curve E versus pH which is not as steep as that of the H^+ function. The system $Na_2O - TiO_2 - SiO_2$ yielded glasses containing up to 30 mole% TiO_2 , which had a differentiating effect. At 1.5 or 3 mole% TiO_2 the curve of E

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Electrode properties of glasses ...

S/054/63/004/001/015/022
B101/B215

versus pH includes a second linear section (58 mv/pH). Glasses containing 6, 10, or 14% TiO_2 show three linear sections, one with 58 mv/pH, one with 25 - 15 mv/pH, and a horizontal one which corresponds to the Na^+ function. A further increase in TiO_2 content widens the range of the metal function continuously. At 26 mole% TiO_2 , the metal function occurs already at $\text{pH} > 6$. At smaller additions, TiO_2 acts like a glass forming oxide and increases the acidity of the glass by forming ionogenic $[\text{TiO}_{6/2}]^{2-}$ groups. More than 10% TiO_2 yields an increasing number of $[\text{TiO}_{4/2}]$ tetrahedrons which bind the H^+ more firmly and reduce the acidity of the glass. There are 5 figures.

SUBMITTED: October 1962

Card 2/2

S/054/63/004/001/021/022
B101/B215

AUTHORS: Bobrov, V. S., Shul'ts, M. M.

TITLE: Electrode properties of non-silicate glasses

PERIODICAL: Leningrad. Universitet. Vestnik. Seriya fiziki i khimii, no. 1, 1963, 166-171

TEXT: It is the aim of the present paper to apply the ion exchange theory developed for silicate glass electrodes also to non-silicate glasses. For this purpose the curves E versus pH were plotted for glasses composed of (in mole%): 36 P_2O_5 , 40 Al_2O_3 , 23 K_2O , 0.8 SiO_2 (I); 20 P_2O_5 , 13 Al_2O_3 , 17 B_2O_3 , 25 Na_2O , 15 MgO , 3 BaO , 5 ZnO , 1.8 SiO_2 (II); 25 P_2O_5 , 16 Al_2O_3 , 21 B_2O_3 , 9 PbO , 29 Na_2O (III); 28 P_2O_5 , 18 Al_2O_3 , 11 B_2O_3 , 16 PbO , 27 Na_2O (IV). The glasses were melted at 1300 - 1500°C. Electrodes of glass I had a resistance of $(2 - 9) \cdot 10^5$ megohm, electrodes of the glasses II, III, and IV had a resistance of 200 - 600 megohm. The electrode properties were studied in buffer solutions with a sodium concentration of 0.1 - 1 N or in HCl solution. II, III, and IV glasses
Card 1/2

Electrode properties of non-silicate ...

S/054/63/004/001/021/022
B101/B215

were less stable in strongly acid or alkaline media and were therefore studied only in the range 1 - 11 pH. Glass I was studied in a wider pH range, although its stability in alkali was also low. Results: Under the corresponding conditions, non-silicate glasses showed H^+ as well as metal functions. Hence glass electrodes of non-silicate glasses were developed for determining the pH and the activity of metal ions in media for which silicate glasses are not applicable. For glass II, a linear section with an inclination of 72 mv/pH was found between 0.7 - 2.2 pH, whose formation is explained by semiconductor processes such as redox processes along the glass - solvent interface. The behavior of glass I is similar to that of alkali silicate glasses, with a small addition of a second glass - forming oxide, e. g. a glass containing 27 mole% Li_2O and 1.5 mole% Al_2O_3 . There are 3 figures and 1 table. The English-language references are: H. F. Shermer, G. F. Rynders, G. W. Cleek, D. Hubbard, J. Res. Nat. Bur. Stand., 52, no. 5, 251, 1954; J. E. Stanworth, J. Soc. Glass. Techn., 30, 381, 1946.

SUBMITTED: October 1962

Card 2/2

L 47306-65 EWP(e)/EWT(m)/EWP(1)/EWP(b) Pg-1 GS/WH

ACCESSION NR: AT5009795

UR/0000/64/000/000/0053/0071

AUTHOR: Storonkin, A.V. ; Bobrov, V.S.

TITLE: Study of the vapor pressure of aluminoborophosphate glass melts. Report No. 1.
Technique employed and experimental data

SOURCE: Leningrad. Universitet. Fiziko-khimicheskiye svoystvy rastvorov (physico-chemical properties of solutions). Leningrad, Izd-vo Leningr. univ., 1964, 53-71

TOPIC TAGS: glass vapor pressure, aluminoboro phosphate glass, phosphorus pentoxide, boron trioxide

ABSTRACT: The object of this study was to obtain data on the melt - vapor equilibrium in the system $P_2O_5 - Al_2O_3 - B_2O_3$ for a wide range of compositions. Colorimetric methods were used for the analysis of the components - B_2O_3 , P_2O_5 , SiO_2 , and Al_2O_3 . The results obtained were in good agreement with those obtained by classical analytical methods. The vapor pressure of P_4O_{10} and B_2O_3 was determined by using a stream of air. Since the process was nonstationary, only the initial vapor pressure (at zero volume of air passed) corresponded to the unchanged composition of the glass and gave a value close to the equilibrium value; for this reason, the vapor pressures were extrapolated to zero air velocity. The experimental data were compared with the synthetic data on a triangular

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L 47306-55

ACCESSION NR: AT5009795

composition diagram. It was shown that the log of the partial pressure of P_4O_{10} varies linearly with the composition of the glass in sections containing a constant amount of Al_2O_3 . The temperature dependence of the nonequilibrium partial pressure of P_4O_{10} and B_2O_3 was studied in several glass compositions of the system $P_2O_5 - Al_2O_3 - B_2O_3$. Orig. art. has: 4 figures and 8 tables.

ASSOCIATION: none

SUBMITTED: 09Jan63

ENCL: 00

SUB CODE: MT, GC

NO REF SOV: 008

OTHER: 009

me
Card 2/2

L 47307-65 EWG(j)/EWP(e)/EWT(m)/EPP(c)/EWP(i)/EPR/EWP(t)/EWP(b) Fg-l/Pr-l/PS-l
TJP(c) JD/GS/WH

ACCESSION NR: AT5009796

UR/0000/64/000/000/0072/0089

AUTHOR: Storonkin, A.V.; Bobrov, V.S.

TITLE: Study of the vapor pressure of aluminoborophosphate glass melts. Report No. 2.
Thermodynamic evaluation of the experimental data

SOURCE: Leningrad. Universitet. Fiziko-khimicheskiye svoystva rastvorov (Physico-chemical properties of solutions). Leningrad, Izd-vo Leningr. univ., 1964, 72-89

TOPIC TAGS: glass vapor pressure, aluminoboro phosphate glass, boron trioxide,
partial pressure, glass evaporation

ABSTRACT: The purpose of this work was to find out whether the results obtained in previous reports dealing with the vapor pressure of melts of the system $P_2O_5 - Al_2O_3 - B_2O_3$ at 1450C satisfied the requirements of the thermodynamics of three-component systems. Accordingly, the character of the changes in the partial pressures and chemical potentials of the system along isotherms-isobars was determined. It was found that the data for the partial pressure of B_2O_3 did not correspond to the thermodynamic restrictions for ternary systems; this is due to the presence of water of constitution in these glasses. On the basis of data on the glass melt - vapor equilibrium, the course of the curves of open evaporation of the glasses in the system is presented. The character

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ACCESSION NR: AT5009796

of the evaporation of the glasses during their melting from the charge was investigated, and it was shown that most of the losses of volatile components occur during the second period of the melting, i.e., are due to the evaporation of the glass itself. Orig. art. has: 10 figures, 1 table, and 14 formulas.

ASSOCIATION: none

SUBMITTED: 20Jun63

ENCL: 00

SUB CODE: MT, TD

NO REF SOV: 007

OTHER: 004

me
Card 2/2

ACCESSION NR: AT4040547

S/0000/64/000/000/0096/0105

AUTHOR: Shul'ts, M.M., Pashekhonova, N.V., Belyustin, A.A., Parfenov, A.I.,
Bobrov, V.S.

TITLE: Electrode properties of alkali silicate glasses containing the oxides of gallium,
indium, titanium and zirconium

SOURCE: Soveshchaniye po khimii redkikh elementov. Leningrad, 1961. Khimiya
redkikh elementov (Chemistry of rare elements); doklady* soveshchaniya. Leningrad,
Izd-vo Leningr. univ., 1964, 96-105

TOPIC TAGS: glass, silicate glass, electrode behavior, silicate glass electrical
property, rare earth oxide, alkali silicate glass, gallium oxide, indium oxide, titanium
oxide, zirconium oxide

ABSTRACT: After a theoretical review of the electrode properties of various glasses
and the relationship between the EMF of an Ag AgCl, HCl glass buffer KCl,
Hg₂Cl₂ Hg cell and pH, the authors describe the effect of the addition of various
amounts of rare oxides to lithium-silicate, lithium-aluminium-silicate, sodium-
aluminium-silicate, and sodium-barium-aluminium-silicate glasses. In glasses of

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ACCESSION NR: AT4040547

the series of $24\% \text{Li}_2\text{O} - X\% \text{R}_2\text{O}_3 - (76-X)\% \text{SiO}_2$, when $\text{R}=\text{B}, \text{Al}, \text{Ga}$, in order to obtain the same effect it is necessary to incorporate more Ga_2O_3 than Al_2O_3 and more B_2O_3 than Ga_2O_3 , which means that the effect of Ga_2O_3 on the electrode properties is between the effects of B_2O_3 and Al_2O_3 . Analogous results were obtained with glasses containing 27 and 30% LiO_2 . In glass of the system $22\% \text{Na}_2\text{O} - X\% \text{Ga}_2\text{O}_3 - (78-X)\% \text{SiO}_2$, added gallium acts as a glass former and to some extent as a modifier. In a system containing $22\% \text{Na}_2\text{O} - X\% \text{In}_2\text{O}_3 - (78-X)\% \text{SiO}_2$, it was observed that the deviation from the hydrogen function increased with an increase in In_2O_3 , but was less than with Ga_2O_3 . In glass of the system $22\% \text{Na}_2\text{O} - 4\% \text{R}_2\text{O}_3 - 74\% \text{SiO}_2$ ($\text{R}=\text{B}, \text{Al}, \text{Ga}$ and In), the effect of the R_2O_3 oxides on the electrode behavior of sodium silicate glasses decreased in the order $\text{Al} > \text{Ga} > \text{In}$, as in the lithium silicate glasses. This order is characteristic for glasses when $[\text{R}_2\text{O}_3]/[\text{Na}_2\text{O}] < 0.3$. If $0.3 < [\text{R}_2\text{O}_3]/[\text{Na}_2\text{O}] < 1$, the order is different: $\text{Al} > \text{B} > \text{Ga} > \text{In}$; while if $[\text{R}_2\text{O}_3]/[\text{Na}_2\text{O}] > 1$, the order is $\text{Ba} > \text{Al} > \text{Ga} > \text{In}$. In the system $\text{Na}_2\text{O} - \text{TiO}_2 - \text{SiO}_2$ where $\text{Na}_2\text{O} = 16-22 \text{ mol. \%}$, the effects were characteristic for the oxides of glass formers, and analogous data were obtained with some $\text{LiO}_2 - \text{TiO}_2 - \text{SiO}_2$ systems. Relatively small amounts of TiO_2

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ACCESSION NR: AT4040547

produced differentiation with respect to the stability of the bonds to H^+ ions similar to that obtained for the R_2O_3 oxides. In sodium and lithium silicate glasses, ZrO_2 showed similar results. The electrode behavior of alkali silicate glasses into which oxides of Ti and Zr are incorporated can be explained by the formation of bonds in which the atoms of these elements are surrounded by oxygen in such a way that a complex is formed which carries a negative charge and which determines the predominantly ionic bond of hydrogen in the glass. Addition of barium oxide to lithium silicate glasses containing ZrO_2 seems to abolish the glass forming properties of ZrO_2 . Orig. art. has: 7 figures.

ASSOCIATION: none

SUBMITTED: 21Jan64

ENCL: 00

SUB CODE: MT, IC

NO REF SOV: 011

OTHER: 001

Card 3/3

I 51845-65 EWP(e)/EWI(m)/EWP(1)/EWG(m)/EWP(j)/T/EWP(b) Pc-A/Pq-4 RWH/RM/WH
 ACCESSION NR: AP5011812 UR/0080/65/038/004/0776/0771
 541.134+566.1/.2

AUTHOR: Bobrov, V. S.; Kalmykova, L. P.; Shul'ts, M. M. 28

TITLE: Manifestation of the coordination state of boron in the electrode behavior
of lithium borosilicat glasses 15

SOURCE: Zhurnal prikladnoy khimii, v. 38, no. 4, 1965, 766-771

TOPIC TAGS: borate glass, silicate glass, lithium compound

ABSTRACT: The electrode behavior of the $\text{Li}_2\text{O}-\text{B}_2\text{O}_3-\text{SiO}_2$ system was studied over a wide range of compositions, and a relationship was established between the electrode properties and structural transformations in glass caused by the change in the coordination number of boron. The electrode behavior was followed by studying the emf of electrodes made of the glasses under consideration as a function of the pH. The electrodes were prepared immediately before the experiment; their Li_2O content was 27 mol % (see fig. 1 of the Enclosure). The B_2O_3 content is designated by numbers on each curve. In the presence of small amounts of B_2O_3 (3%), a "differentiating" effect ("step" on the E-pH curve) appears; it indicates the presence of

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ACCESSION NR: AP5011812

two types of ionogenic groups in the glass which differ considerably in the strength of their bond with hydrogen. The first linear segment of the E-pH curve in the acid region where a hydrogen function is observed is due to the presence of borate structural units $[BO_4/2]$ which are weakly bonded to hydrogen ion and produce strongly acidic ionogenic groups $[BO_4/2]^- H^+$. The second linear segment is due to the presence of weakly acidic ionogenic silicate groups of the type $[SiO_4]OH$. On further addition of B_2O_3 (14%), the "step" disappears, and a very smooth transition from a hydrogen function (in the acidic pH range) to a metallic function is observed. As the B_2O_3 content rises from 23 to 50 mol %, the length of the linear segment shows that the proportion of the weakly acidic groups increases. The symbatic relationship observed indicates that the nature of the new weakly acidic ionogenic groups is determined by the borate component of the glass structure. These groups are due to the presence of triangles $[BO_3/2]$, in which boron has the coordination number 3. Orig. art. has: 4 figures.

ASSOCIATION: none

SUBMITTED: 10Jul64

ENCL: 01

SUB CODE: MT

NO REF SOV: 009

OTHER: 000

Card 2/3

L 51845-65

ACCESSION NR: AP5011012

ENCLOSURE: 01

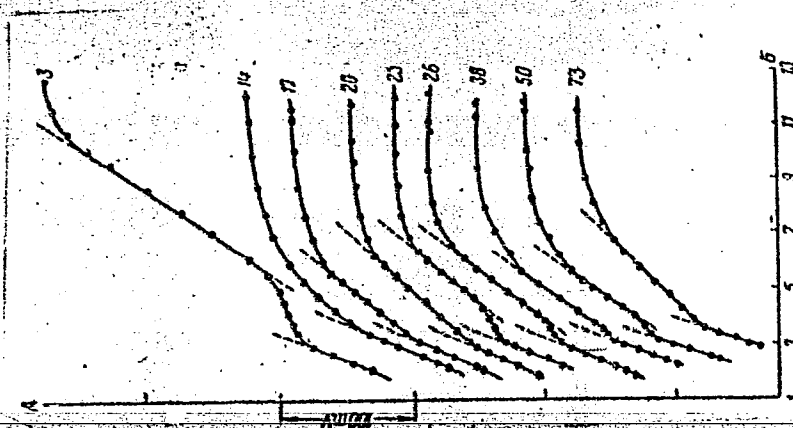


Fig. 1. E versus pH
for a series of glasses
containing 27% Li_2O .

LL
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BOBROV, V.S.; LUTUGINA, N.V.; MOLODENKO, P.Ya.; ZAKHAR'YEVSKIY,
M.S.; STEFANOVA, O.K.; BELYUSTIN, A.A.; MATEROVA, Ye.A.;
NIKOL'SKIY, B.P., otv. red.; POZDYSHEVA, V.A., red.

[Theoretical and practical guide to laboratory work in
physical chemistry] Teoreticheskoe i prakticheskoe ruko-
vodstvo k laboratornym rabotam po fizicheskoi khimii.
[Leningrad] Izd-vo Leningr. univ. Pt.1. 1965. 197 p.
(MIRA 18:12)

1. Leningrad. Universitet. 2. Chlen-korrespondent AN SSSR
(for Nikol'skiy).

L 38163-66 EWT(m)/EWP(s) WH
ACC NR: AP6019236 (A) SOURCE CODE: UR/0364/66/002/003/0288/0294

AUTHOR: Bobrov, V. S.; Shul'ts, M. M.; Kalmykova, L. P.

ORG: Leningrad State University im. A. A. Zhdanov (Leningradskiy gosudarstvennyy universitet)

TITLE: Differentiation of the bond stability of a hydrogen ion in lithium borosilicate glass

SOURCE: Elektrokimiya, v. 2, no. 3, 1966, 288-294

TOPIC TAGS: borate glass, lithium, ~~hydrogen bond~~, molecular structure, electrode, electric potential, acid solution, ion, electrochemistry, *SILICATE GLASS, BONDING PROPERTY*, *HYDROGEN BONDING*

ABSTRACT: A new type of experimental curve (potential - pH) composed of 3 steps and linear portions is developed for the study of hydrogen bond stability and boron atom coordination in the $\text{Li}_2\text{O}-\text{B}_2\text{O}_3-\text{SiO}_2$ system. The displacement of the curves obtained in buffer solutions as a function of B_2O_3 content (in the glass electrode) was related to the grouping of bond stabilities of hydrogen ions "differentiation effect". Four different types of curves having as many as 3 steps and linear portions of varying slope and/or levels were obtained. Curves are given for glass with a Li_2O content of 33 mol% and boron anhydride contents ranging from 0 to 20%. The addition of as little as 5% B_2O_3 shifted the E - pH curve downwards and changed the linear 0% line into one

UDC: 541.135.53

Cord 1/2

L 38163-66

ACC NR: AP6019236

having 3 slopes. The initial slopes were related to the ionic group $[BO\ 4/2]^{-H^+}$, where boron had a coordination of four. At higher pH levels the appearance of the ionic groups $[SiO\ 3/2]OH$ caused the slope changes. These two regions were separated by a linear slope of 18 mv/pH as a result of the intermediate mixing of the two ionic groups. The three-stepped character of the curves was maintained under a variety of experimental conditions. A section of the $Na_2O-B_2O_3-SiO_2$ ternary, in which boron has a coordination of four, was shown with points indicating the range of compositions used experimentally. About half the points fell within that region. Data are presented for the 11 mol% B_2O_3 triangular section for Li_2O contents ranging from 24 to 39%. Again, the differentiation effect occurred and the slope changes were interpreted as before; $[BO\ 4/2]^{-H^+}$, $[BO\ 2/2]OH$ and $[SiO\ 3/2]OH$ are related to slope changes a, b and c respectively. Orig. art. has: 4 figures;

SUB CODE: 07,11/ SUBM DATE: 31Mar65/ ORIG REF: 011/ OTH REF: 000

Card 2/2 *224-12*

L. 42142-66 EWP(e)/EWT(m)/EWP(j)/T

DS/RM/WH

ACC NR: AP6022424

SOURCE CODE: UR/0364/66/002/004/0420/0425

AUTHOR: Bobrov, V. S.; Shul'ts, M. M.; Kalmykova, L. P.ORG: Leningrad State University imeni A. A. Zhdanov (Leningradskiy gosudarstvennyy universitet)TITLE: Coordination state of boron in lithium borate glasses, based on a study of their electrode properties.

SOURCE: Elektrokimiya, v. 2, no. 4, 1966, 420-425

TOPIC TAGS: borate glass, lithium glass, electrode potential, ACID BASE EQUILIBRIUM, BORON, CHEMICAL BONDING, COORDINATION CHEMISTRY

ABSTRACT: The electrode behavior of glasses of the $\text{Li}_2\text{O}-\text{B}_2\text{O}_3$ system was studied by recording the potential of the glass electrode versus the pH (i. e., plotting E-pH curves) in a universal water-alcohol buffer solution containing 0.1 mole of Li ions per liter, 85% ethyl alcohol, and also hydrobromic, salicylic, monochloroacetic, and benzoic acids (0.05 M each). It was found that the coordination state of boron manifests itself in the electrode behavior of the glasses. An increase in the content of Li_2O to 42 mole % causes an increase in the relative content of strongly acidic ionogenic groups $[\text{BO}_4/2]^- \text{H}^+$ of tetracoordinated boron. The electrode behavior of the glasses was shown to reflect the influence of various ionogenic groups of tetracoordinated boron, which are characterized by a marked stability of their bond with hydrogen ions. The observed correlation between the electrode behavior of glasses and the coord

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UDC: 541.135.53

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ACC NR: AP6022424

dination state of boron indicates that the "electrode" method is sufficiently sensitive for studies of structural transformations in lithium borate glasses. Authors are deeply grateful to M. D. Anikiyeva for assistance in the analysis of the glasses. Orig. art. has: 3 figures and 1 table.

SUB CODE: 07/ SUEM DATE: 01Jul65/ ORIG REF: 017/ OTH REF: 001

Card 2/2 MLP

ACC NR: AP6Q21473

SOURCE CODE: UR/0413/66/000/011/0094/0094

INVENTOR: Zhuravel', V. I.; Minakov, V. I.; Bobrov, V. T.; Dimitraki, P. N.; Nikiforenko, Zh. G.; Budenkov, G. A.; Gitis, M. S.

ORG: None

TITLE: An ultrasonic pulse-shadow immersion flaw detector. Class 42, No. 182390 [announced by the All-Union Scientific Research Institute of Nondestructive Methods for Material Quality Control (Vsesoyuznyy nauchno-issledovatel'skiy institut nerazrushayushchikh metodov kontrolya kachestva materialov)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 11, 1966, 94.

TOPIC TAGS: flaw detection, ultrasonic flaw detector, quality control

ABSTRACT: This Author's Certificate introduces: 1. An ultrasonic pulse-shadow immersion flaw detector which contains an ultrasonic probe unit, line scanning mechanism, oscillator and ultrasonic amplifier. The unit is designed for increased productivity in checking parts of complex shape. The installation incorporates an electronic unit which generates a control signal after the ultrasonic probe unit passes beyond the outline of the part being checked. This signal controls the line scanning mechanism and temporarily disconnects the receiving head from the amplifier. 2. A modification of this flaw detector in which the electronic unit is made in such a

Card 1/2

UDC: 620.179.16.C8

ACC NR: AP6021473

way that when there is a single pair of ultrasonic probes in the installation the receiver head is disconnected from the amplifier during the period when the probe unit is returning to the article being checked. 3. A modification of this flaw detector in which the electronic unit is made in such a way that when there are two pairs of ultrasonic probes located one behind the other along their line of motion in the installation, the receiver head disconnected from the amplifier is the one which first passes beyond the outline of the part being checked. This receiver head is connected when the second pair of probes passes beyond the outline of the part on the return travel of the probe unit.

SUB CODE: 09, 13/ SUBM DATE: 07Dec64

Card 2/2

*SHALTYKO, G.Ye., Prinimali uchastiye: KULESHOVA, A.A.; SHESTAKOVA, N.A.
SOKOLOVA, Z.N.; BOBROV, V.V.

Increase of the toxicity of shale tar collected in a compartment
oven main with the purpose of using it for antisepting treating of
wood. Zhur.prikl.khim. 34 no.10:2362-2364 0 '61. (MIRA 14,11)

1. Leningradskiy institut inzhenerov zheleznodorozhnogo transporta.
(Wood preservatives) (Coal tar)

SKOBELIN, V.M.; RUKSHA, G.P.; KROTENKO, F.I., burovoy master (Rostov-na-Donu);
KRASIN, N.A., inzh.; BOBROV, V.V.; SHUMILIN, V.P., brigadir puti
(st.Ust'Kamenogorsk, Kazakhskoy dorogi)

Letters to the editor. Put' i put.khoz. 6 no.6:42-43 '62.

(MIRA 15:7)

1. Zamestitel' nachal'nika Kotel'nikskoy distantzii Gor'kovskoy
dorogi (for Skobelin). 2. Nachal'nik otdela puti, st. Leningrad-Vi-
tebskiy, Oktyabr'skoy dorogi (for Ruksha). 3. Zamestitel' nachal'nika
Terenskoy distantzii Kuybyshevskoy dorogi (for Krasin). 4. Starshiy
dorozhnyy master, stantsiya Tikhvin, Oktyabr'skoy dorogi (for Bobrov).
(Railroads)

NEFEDOV, A.A.; BOBROV, V.V.; SHAFRAN, I.K.; CHUVACHKO, A.M.; IVANIN, V.P.;
KONYUSHENKO, A.S.

Investigating the regularities of butt shrinkage during the rolling
of high shapes. Izv.vys.usheb.zav.; chern.met. 8 no.8:89-93 '65.

(MIRA 18:8)

1. Dneprodzerzhinskii metallurgicheskii zavod-vtuz.

BOBROV, V.Ya., kand.ekonom.nauk

Triumph of Leninist ideas. Nauka i zhyttia 11 no. 4:1-4 Ap '61.
(MIRA 14:5)

(Communism)

ZELENIN, N.I.; SHALTYKO, G.Ye.; CHERNYSHEVA, K.B.; TATARKINA, G.V.; FAYNBERG, V. S.; YANKOVSKAYA, T.A.; Primali uchastiye: SOKOLOVA, Z.N.; KULESHOVA, A.A.; KRESTENKO, M.N.; BOBROV, V.V.; PIMENOVA, F.G.

Developing methods for the cold fractionation of shale tar. Part 5.
Using light tar as wood impregnating oil. Khim. i tekhn. gor. sl. i
prod. ikh perer. no.12:278-284 '63. (MIRA 17:2)

1. Leningradskiy inzhenerno-ekonomicheskii institut i Leningradskiy institut inzhenerov zheleznodorozhnogo transporta.

BOBROV, V. YA.

USSR/Meteorology - Meteorological Service May 52

"Meteorological Service to Agriculture by Stavropol' Hydrometeorological Office in 1951," V. Ya. Bobrov, V. A. Soloshenko, Stavropol' Hydrometeor Office

"Meteorol i Gidrol" No 5, pp 8-12

During 1951, the Stavropol' Hydrometeorol Office supplied information to over 350 agricultural organizations. Information consisted of monthly forecasts, transmission of 3-day forecasts from

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Rostov, and its own daily forecasts and storm warnings. The office published 400 issues of thrice-monthly bulletins, later discontinued, and 25 issues of daily bulletins. Publication of a booklet to help kolchozes in establishing their own meteorological observation stations is intended.

229183

BOBROV, V. Ya.

USSR/Meteorology

Card 1/1 : Pub. 86 - 15/34

Authors : Bobrov, V. Ya., and Shchitov, A. S.

Title : About one of the reasons for the arid winds in western approaches of the Caucasus

Periodical : Priroda 1, 95-96, Jan 1954

Abstract : Meteorological data are presented which offer a general explanation of the reasons for the arid, sometimes even warm, low winds usually encountered in the month of March in the western approaches of the Caucasus Mountains in the USSR. Weather chart, corresponding to the maximum development of such arid wind, is included.

Institution : The Hydrometeorological Bureau, Stavropol

Submitted :

Robert V. G.

phenological network, etc. Specific examples of the service given by the hydrometeorological service during recent years are given. Subject Findings: 1. Agricultural meteorology; 2. Agro-
logical services; 3. Frost warning services; 4. Synoptic; 5. Tropical; 6. Polar; 7. High altitude; 8. Space weather; 9. Climate; 10. Environmental; 11. Public weather service; 12. Meteorological education; 13. Meteorological research; 14. Meteorological cooperation; 15. Meteorological information; 16. Meteorological services; 17. Meteorological organizations; 18. Meteorological equipment; 19. Meteorological methods; 20. Meteorological data; 21. Meteorological publications; 22. Meteorological conferences; 23. Meteorological exhibitions; 24. Meteorological museums; 25. Meteorological libraries; 26. Meteorological archives; 27. Meteorological collections; 28. Meteorological specimens; 29. Meteorological instruments; 30. Meteorological standards; 31. Meteorological terminology; 32. Meteorological nomenclature; 33. Meteorological symbols; 34. Meteorological units; 35. Meteorological measurements; 36. Meteorological observations; 37. Meteorological forecasts; 38. Meteorological warnings; 39. Meteorological advisories; 40. Meteorological bulletins; 41. Meteorological reports; 42. Meteorological maps; 43. Meteorological charts; 44. Meteorological diagrams; 45. Meteorological tables; 46. Meteorological forms; 47. Meteorological documents; 48. Meteorological records; 49. Meteorological statistics; 50. Meteorological analysis; 51. Meteorological synthesis; 52. Meteorological interpretation; 53. Meteorological evaluation; 54. Meteorological verification; 55. Meteorological validation; 56. Meteorological quality control; 57. Meteorological data management; 58. Meteorological data processing; 59. Meteorological data storage; 60. Meteorological data retrieval; 61. Meteorological data distribution; 62. Meteorological data exchange; 63. Meteorological data sharing; 64. Meteorological data access; 65. Meteorological data security; 66. Meteorological data privacy; 67. Meteorological data integrity; 68. Meteorological data availability; 69. Meteorological data reliability; 70. Meteorological data accuracy; 71. Meteorological data precision; 72. Meteorological data completeness; 73. Meteorological data consistency; 74. Meteorological data timeliness; 75. Meteorological data relevance; 76. Meteorological data usefulness; 77. Meteorological data value; 78. Meteorological data cost; 79. Meteorological data quality; 80. Meteorological data quantity; 81. Meteorological data frequency; 82. Meteorological data duration; 83. Meteorological data scope; 84. Meteorological data coverage; 85. Meteorological data resolution; 86. Meteorological data detail; 87. Meteorological data granularity; 88. Meteorological data specificity; 89. Meteorological data generality; 90. Meteorological data abstraction; 91. Meteorological data concreteness; 92. Meteorological data abstractness; 93. Meteorological data concreteness; 94. Meteorological data abstractness; 95. Meteorological data abstractness; 96. Meteorological data concreteness; 97. Meteorological data abstractness; 98. Meteorological data concreteness; 99. Meteorological data abstractness; 100. Meteorological data concreteness.

BOBROV, V.Ya.; DROZDOV, S.S., red.

[Weather forecasting based on local observations] Kak
predskazyvat' pogodu po mestrym priznakam. Stavropol',
Stavropol'skoe knizhnoe izd-vo, 1962. 46 p.
(MIRA 17:5)

BOBROV, Ye.

Effectiveness of feeding the young of mink and arctic foxes with
antibiotics and cobalt chloride. Vestis Latv ak no.10:107-110 '60.
(EEAI 10:9:10)

(Minks) (Arctic fox) (Cobalt chlorides)
(Antibiotics)

BOBROV, Y.

Mesozoic bauxite-bearing sediments in the Eastern Sayan Mountains.
Bul.MOIP.Otd.geol.38 no.2:154 Mr-Apr '63.

(MIRA 16:5)

(Sayan Mountains--Bauxite)

BOBROV, Ye. G.

"Some Asiatic Species of the Nitraria L. Order," Sov. Botan., 14, no. 1,
1946.

Scientific Council, Botanical Inst. im. V. L. Komarov, AS USSR

BOBROV, YE. G.
25450

Pamyati A.V. Yarmolenko. [Botanik. 1905-1944]. S Portr. Botan. Zhurnal, 1948,
No. 2, s. 263-66 - Bibliogr: <<Spisok Nauchnykh Rabot>>, 30 Nazv.

SO: LETOPIS NO. 30, 1948

Editors: BOBROV, Ye. G.; SHISHKIN, B. K.; Compilers: AFANAS'YEV, K. S.; BORISOVA, A.G.;
VASIL'YEV, V. N.; GORSHKOVA, S. G.; ILIN, M. M.; KLOKOV, M. V.; MALEYEV, V. P.;
MURAV'YEV, O. A.; POBEDIMOVA, Ye. G.; POYARKOVA, A. I.; PROKHANOV, Ya. I.; SHISHKIN, B.K.;
SHTEYNBERG, Ye. I.; YUZEPCHEK, S. V.; KOMAROV, V. L. (Acad.)

Flora of the USSR, Vol 15, Moscow-Leningrad, 743 pp., 1950

Book W-22202, 7 Apr 52

BOBROV, YE.G.

Clover

Introducing apertum clover (*Trifolium apertum*) to cultivation
Korņ. baza 3 no. 9, 1952

SHISHKIN, B.K.; BOBROV, Ye.G.

Genus Androsace. Flora SSSR 18:217-242 '52.

(MLRA 6:5)
(Androsace)

BOBROV, Ye.G.

Monotropaceae family; genus Lomatogonium; Menyanthaceae family. Flora
SSSR 18:19-22; 620-621; 640-645 '52.
(MLBA 6:5)
(Botany)

KHOROSHAYLOV, N.G. [author]; BOBROV, Ye.G. [reviewer].

New work on red clover and the problem of local varieties ("Local varieties of red clover." N.G. Khoroshailov.) Reviewed by E.G. Bobrov. Bot. zhur. 38 no. 4: 600-610 J1-Ag '53. (MLRA 6:9)

1. Botanicheskiy institut im. V.I. Komarova Akademii nauk SSSR, Leningrad. (Clover) (Khoroshailov, N.G.)

GAMMERMAN, A.F.; SHASS, Ye.Yu.; BOBROV, Ye.G., redaktor; BORISOV, K.A.,
redaktor; ARONS, R.A., ~~tekhnicheskii~~ redaktor.

[Schematic maps showing the distribution of the most important
medical plants in the U.S.S.R.] Skhematicheskie karty rasprostraneniia
vashneishikh lekarstvennykh rastenii SSSR. Moskva, Izd-vo Akademii
nauk SSSR, 1954. 137 p.
(Botany, Medical) (MIRA 7:11)

GEYDEMAN, T.S.; BOBROV, Ye.G., redaktor; MOLODTSOVA, N.G., tekhnicheskiy
redaktor

[Guide to plants of the Moldavian Soviet Socialist Republic]
Opredelitel' rastenii Moldavskoi SSR. Moskva, Izd-vo Akademii nauk
SSSR, 1954. 466 p. (MLRA 7:8)
(Moldavia--Botany) (Botany--Moldavia)

BOBROV, Ye. G.

BOBROV, Ye. G.

Carl Linnaeus and the contemporary nomenclature of plants. Bot. zhur. 39
no. 2: 296-304 Mr-Apr '54. (MIRA 7:6)

1. Botanicheskiy institut im. V.L. Komarova Akademii nauk SSSR, Lenin-
grad.
(Linne, Carl von, 1707-1778)

BOBROV, Ye.G.

"Filbert." Sel'khozgiz. Reviewed by E.G.Bobrov. Bot.zhur. 39 no.4:
611-614 J1-Ag '54. (MLRA 7:10)

1. Botanicheskiy institut im. V.L.Komarova Akademii nauk SSSR, lenin-
grad.
(Filbert)

Bois-Rey, Ye. G.

SHISHKIN, B.K., radaktor; BOEROV, Ye.G., radaktor

[Solanaceae and Scrophulariaceae]. Flora SSSR no. 22:1-859 '55.
(Solanaceae) (Scrophulariaceae) (MLRA 8:11)

156
BOBROW, Ye. G.

S.P. Krasheninnikov as a botanist. Bot. zhur. 40 no. 4: 617-624 J1-Ag'55.
(MIRA 8:11)

1. Botanicheskiy institut imeni V.L. Komarova Akademii nauk SSSR,
Leningrad

(Krasheninnikov, Sergei Petrovich, 1713-1755)

BOBROV, Ye.G.

"Russian comfrey" [in English] Lawrence D. Hilla. Reviewed by
Ye.G. Bobrov. Bot. zhurn. 40 no. 5: 729-733 S-O '55. (MLRA 9:4)

1. Botanicheskiy institut imeni V.L. Komareva Akademii nauk
SSSR, Leningrad.

(Forage plants)

BOBROW, Ye.G.

Boris Konstantinovich Shishkin; on his 70th birthday. Bot.zhur.41
no.6:925-930 Je '56. (MLRA 9:10)

1. Botanicheskiy institut imeni V.L.Komareva Akademii nauk SSSR,
Leningrad.
(Shishkin, Boris Konstantinovich, 1886-)

~~BOBROV, Ye.G.~~; SHISHKIN, B.K., otvetstvennyy redaktor; YAKOVLEVA, V.M.,
redaktor izdatel'stva; ARONS, P.A., tekhnicheskiy redaktor

[Linné, his life and works] Linnei, ego zhizn' i trudy. Moskva,
Izd-vo Akad.nauk SSSR, 1957. 215 p. (MLRA 10:7)

1. Chlen-korrespondent AN SSSR (for Shishkin)
(Linné, Carl von, 1707-1778)

BOBROV, Ye. G.

BARANOV, P.A., otvetstvennyy red.; BOBROV, Ye. G., otvetstvennyy red.;
YAKOVLEVA, V.M., red. izd-va; PEVNER, R.S., tekhn. red.

[From the Herb Garden to the Botanical Institute; history of the
Botanical Institute of the Academy of Sciences of the U.S.S.R.]
Ot Aptekarskogo ogoroda do Botanicheskogo institut; ocherki po
istorii Botanicheskogo instituta Akademii nauk SSSR. Moskva,
1957. 307 p. (MIRA 11:2)

1. Akademiya nauk SSSR. Botanicheskiy institut.
(Leningrad--Botanical gardens)

Bobrov, E.G.
USSR / General Division, History, Classics, Personnel

A-2

Abs Jour : Ref Zhur - Biol., No 1, 1958, No 37

Author : Bobrov, E.G.

Inst : Not Given

Title : Carl Linnaeus and His Works

Orig Pub : Vestn. s.-kh., 1957, No 5, 116-123

Abstract : No abstract

Card : 1/1

БОБРОВ, Ye. G.
BOBROV, Ye. G.

Families Morinaceae, Dipsacaceae. Flora SSSR 24:1-91 '57.

(MIRA 10:7)

(Morinaceae) (Dipsacaceae)

Bobrov, E. G.
USSR / General Division, History, Classics, Personnel

A-2

Abs Jour : Ref Zhur - Biol., No 1, 1958, No 35

Author : Bobrov, E.G.

Inst : Not Given

Title : Was Linnaeus the Creator of the "Binary Nomenclature" (Reply to the Article of S.V. Iuzepchuk)

Orig Pub : Botan. zh., 1957, 42, No 4, 658-662

Abstract : Opposition to Iuzepchuk, the author of a review on a brochure by Bobrov, "The Two-hundredth Year of the 'Species Plantarum' of Carl Linnaeus". Bobrov did not intend to shake the priority of Linnaeus in the matter of introducing the double nomenclature. He put the problem in a half-popular form to describe the significance of "Species Plantarum" in the history of systematics, to show how the "simple names" were transformed into the only valid species names, and he attempted to prove that the development of plant nomenclature proceeded gradually and regularly and that the decisive role in this belonged to Linnaeus. The author acknowledged that in several

Card : 1/2

USSR / General Division, History, Classics, Personnel

A-2

Abs Jour : Ref Zhur - Biol., No 1, 1958, No 35

places, he allowed in the translation a citation from
Linnaeus inaccurately, not having the principle meaning.

Card : 2/2

BOBROV, Ye. G.

BOBROV, Ye. G.

Linnean days. Bot.zhur. 42 no.10:1570-1572 0 '57. (MIRA 10:10)

1. Botanicheskiy institut im. V.I. Komarova AN SSSR, Leningrad.
(Linne, Carl von, 1707-1778)

KOMAROV, V.L., akademik, glavnyy red.; SHISHKIN, B.K., red. izdaniya;
BOBROV, Ye.G., doktor biol.nauk, prof.red.; VASIL'CHENKO, I.T.,
red.; GORSHKOVA, S.G., red.; GRIGOR'YEV, Yu.S., red.; GRUBOV, V.I.,
red.; DOROFYEV, P.I., red.; IL'INSKAYA, I.A., red.; KLOKOV, M.V.,
red.; KUPRIYANOVA, L.A., red.; LINCHEVSKIY, I.A., red.; NOVOPOKROV-
SKIY, I.V., red.; POBEDIMOVA, Ye.G., red.; POPOV, M.G., red.;
POYARKOVA, A.I., red.; SHTEYNBERG, Ye.I., red.; TSVETLEV, N.N., red.;
SMIRNOVA, A.V., tekhn.red.

[Flora of the U.S.S.R.] Flora SSSR, Moskva, Izd-vo Akad. nauk
SSSR, 1958. 775 p. (MIRA 12:7)

1. Chlen-korrespondent AN SSSR (for Shishkin).
(Botany)

BOBROV, Ye.G.

Some forgotten plants described by Gmelin Junior, during his expedition in 1768-1773 [with summary in English]. Bot.zhur. 43 no.11:1541-1549 N '58. (MIRA 11:11)

1. Botanicheskiy institut im. V.L. Komarova AN SSSR, Leningrad. (Gmelin, Samuel Gottlieb, 1744-1774) (Botany)

BORISOVA, A.G.; BOCHANTSSEV, V.P.; VASIL'CHENKO, I.T.; GOLUBKOVA, V.F.;
GORSHKOVA, S.G.; GRUBOV, V.I.; KIRPICHNIKOV, M.E.; SMOL'YANINOVA,
L.A.; TAMAMSHYAN, S.G.; TSVELEV, N.N.; TVETKOVA, L.I.; YUZEP-
CHUK, S.V.; SHISHKIN, B.K., red.toma; BOBROV, Ye.G., doktor
biol.nauk, prof., red.: SMIRNOVA, A.V., tekhn.red.

[Compositae] Compositae. Moskva, Izd.-vo Akad.nauk SSSR, 1959.
630 p.(Akademiia nauk SSSR. Botanicheskii institut. Flora
SSSR. no.25) (MIRA 13:4)

(Compositae)

BORISOVA, A.G.; BOCHANTSEV, V.P.; VASIL'CHENKO, I.T.; GOLUBKOVA, V.F.;
GORSHKOVA, S.G.; GRUBOV, V.I.; KIRPICHNIKOV, M.E.; SMOL'YANINOVA, L.A.;
TAMAMSHYAN, S.G.; TSVETLEV, N.N.; YUZEPCHIK, S.V.; KOMAROV, V.L.,
akademik, glavnyy red.; SHISHKIN, B.K., red.izdaniya; BOBROV, Ye.G.,
doktor biol.nauk, prof., red.; SMIRNOV, A.V., tekhn.red.

[Flora of the U.S.S.R.] Flora SSSR. Moskva, Izd-vo Akad.nauk
SSSR. 1959. 630 p. (MIRA 12:8)

1. Chlen-korrespondent AN SSSR (for Shishkin).
(Compositae)

BOBROV, Ye.G., doktor biol.nauk, prof.; VASIL'CHENKO, I.T.; GORSHKOVA,
S.G.; GRIGOR'YEV, Yu.S.; GRUBOV, V.I.; DOROFYEV, P.I.; IL'INSKAYA,
I.A.; KLOKOV, M.V.; KUPRIYANOVA, L.A.; LINCHEVSKIY, I.A.;
NOVOPOKROVSKIY, I.V.; POBEDIMOVA, Ye.G.; POPOV, M.G.; POYARKOVA,
A.I.; SHTEYNBERG, Ye.I.; TSVELEV, N.N.; SHISHKIN, B.K., red.
izdaniya; SMIRNOVA, A.V., tekhn.red.

[Dicotyledons] Dicotyledons. Moskva, Izd-vo Akad.nauk SSSR, 1959.
775 p. (Akademia nauk SSSR, Botanicheskii institut. Flora SSSR,
vol.23) (MIRA 13:4)

(Dicotyledons)

BOBROV, Y. G.

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SERGIYEVSKAYA, Ye.V.; CHERNEVA, O.V.; CHEREPANOV, S.K.;
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